

CLAIMS

1. In a method for making plastic hooks utilizing an apparatus comprising a first cooled unitary forming roller having a plurality of hook forming cavities defined in the periphery thereof and extending inwardly therefrom; a second pressure roller positioned for coaction with said first forming roller; means for concurrently rotating said first and second rollers in opposite directions about their generally respective axis; means for forming an extrusion of molten plastic material adjacent said first and second rollers to be directed therebetween at an interface thereof such that said plastic material fills said hook forming cavities and forms a striplike member having a base portion and a great multiplicity of hooklike projections extending from one surface of said base portion and integral therewith; means for removing and striplike member from said first forming roller at a position spaced from the interface of said first and second rollers such that said hooklike projections are withdrawn from said hook forming cavities without opening said cavities after being cooled by the first forming roller to a desired temperature, the improvement wherein there is introduced into said interface formed by the two cylinders a sheet material which becomes an integral part

of said striplike member on the side opposite said hooklike projections, said sheet material being introduced into said interface adjacent said second roller so that said sheet material does not interfere with the operation of the hook forming process, to form an insitu laminate with said striplike member.

2. The method of claim 1 wherein the sheet material is a nonwoven fabric.

3. The method of claim 1 wherein the sheetlike material is a textile fabric.

4. The method of claim 3 wherein the textile fabric is woven.

5. The method of claim 1 wherein the sheet material is a polyurethane foam.

6. The method of claim 1 wherein the sheet material is a plastic film.

7. The method of claim 1 wherein the sheet material is paper.

8. The method of claim 1 wherein the sheet material has loops on one side thereof said loops extending away from the base of said striplike member on the side opposite the side containing said hooklike projections.

9. The method of claim 1 wherein the sheet material contains printed matter and said plastic material is

sufficiently transparent such that said printed matter is visible through said transparent plastic.

10. The method of claim 1 wherein the sheet material contains an adhesive on one side thereof said adhesive extending away from the base of said striplike member on the side opposite the side containing said hooklike projections.

11. In a method for making plastic hooks utilizing an apparatus comprising a first cooled unitary forming roller having a plurality of hook forming cavities defined in the periphery thereof and extending inwardly therefrom; a second pressure roller positioned for coaction with said first forming roller; means for concurrently rotating said first and second rollers in opposite directions about their generally respective axis; means for forming an extrusion of molten plastic material adjacent said first and second rollers to be directed therebetween at an interface thereof such that said plastic material fills said hook forming cavities and forms a striplike member having a base portion and a great multiplicity of hooklike projections extending from one surface of said base portion and integral therewith; means for removing said striplike member from said first forming roller at a position spaced from the interface of said first and

second rollers such that said hooklike projections are withdrawn from said hook forming cavities without opening said cavities after being cooled by the first forming roller to a desired temperature, the improvement wherein sheet material is passed through web straightening means to assure said sheet material is properly centered relative to said backing pressure roller,

impinging said sheet material onto securing means located around the periphery of said backing pressure roller, and

introducing said sheet material into the interface between said first and second rollers while said sheet material is conveyed with proper alignment and in a smooth, undistorted fashion but sufficiently retained on said backing pressure roll so that it is capable of withstanding the dynamic pressures created as said molten plastic flows and becomes an integral portion of said striplike fastening member on the side opposite from said hooklike projections.

12. The process of claim 11 wherein the sheet material is a nonwoven fabric.

13. The process of claim 11 wherein the sheet material is a textile fabric.

14. The process of claim 13 wherein the textile fabric is woven.

15. The process of claim 11 wherein the sheet material is a polyurethane foam.

16. The process of claim 11 wherein the sheet material is a plastic film.

17. The process of claim 11 wherein the sheet material is paper.

18. The process of claim 11 wherein the sheet material has loops on one side thereof said loops extending away from the base of said striplike member on the side opposite the side containing said hooklike projections.

19. The method of claim 11 wherein the sheet material contains printed matter and said plastic material is sufficiently transparent such that said printed matter is visible through the transparent plastic from the side containing the hooklike projections.

20. The process of claim 11 wherein the sheet material contains an adhesive on one side thereof said adhesive extending away from the base of said striplike member on the side opposite the side containing said hooklike projections.

21. In an elongated, striplike fastening member having a base member and a multiplicity of hooklike engaging elements in the form of projections upstanding therefrom, said hooklike projections each having a stem supported at one end thereof on said base member and a radial extension on the unsupported end of said stem, said hooklike projections and said base member being composed of the same polymeric material the improvement wherein said base member is integrally joined with a fibrous sheetlike material without the use of adhesives or other foreign components, on the side of said base member opposite the side containing said hook-like projections, by the polymer forming said base member being co-mingled with ~~and~~ ~~encapsulating~~ at least some of the surface fibers on one side of said sheetlike fibrous material, while leaving other fibers on the opposite surface free of said polymer.

22. The elongated striplike fastening member of claim 21 wherein the fibrous sheetlike material is a nonwoven fabric.

23. The elongated, striplike fastening member of claim 21 wherein the fibrous sheetlike material is a woven textile fabric.

24. The elongated, striplike fastening member of claim 21 wherein the fibrous sheet like material is a woven textile fabric.

25. The elongated, striplike fastening member of claim 24 wherein the textile fabric is woven.

26. The elongated, striplike fastening member of claim 24 wherein the textile fabric is knitted.

27. The elongated, striplike fastening member of claim 24 wherein the fibrous sheet like material is paper.

28. The elongated, striplike fastening member of claim 24 wherein the fibrous sheet like material is a foam layer.

29. The elongated, striplike fastening member of claim 28 wherein the fibrous sheet like material is a foam layer bonded to front and back by sufficiently strong bond to allow shearing of foam layer.